

KB



PCT09

RAW SEQUENCE LISTING

DATE: 07/22/2002

PATENT APPLICATION: US/09/831,631A

TIME: 15:06:03

Input Set : N:\Crf3\06212002\I831631.raw

Output Set: N:\CRF3\07222002\I831631A.raw

ENTERED

```

1 <110> APPLICANT: Burch, Ronald
2   Sackler, David
3 <120> TITLE OF INVENTION: Contraceptive Antibody Vaccines
4 <130> FILE REFERENCE: 6750-018-999
5 <140> CURRENT APPLICATION NUMBER: US/09/831,631A
6 <141> CURRENT FILING DATE: 2002-04-26
7 <160> NUMBER OF SEQ ID NOS: 70
8 <170> SOFTWARE: PatentIn version 3.0
10 <210> SEQ ID NO: 1
11 <211> LENGTH: 16
12 <212> TYPE: DNA
13 <213> ORGANISM: Artificial Sequence
14 <220> FEATURE:
15 <221> NAME/KEY: misc_feature
16 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer for PCR
17 <400> SEQUENCE: 1
18   aacagctatg accatg                                     16
20 <210> SEQ ID NO: 2
21 <211> LENGTH: 20
22 <212> TYPE: DNA
23 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <221> NAME/KEY: misc_feature
26 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer for PCR
27 <400> SEQUENCE: 2
28   gaattcatgg cttgggtgtg                                   20
30 <210> SEQ ID NO: 3
31 <211> LENGTH: 13
32 <212> TYPE: PRT
33 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <221> NAME/KEY: misc_feature
36 <223> OTHER INFORMATION: Description of Artificial Sequence: CDR Derived peptide with
Biotin
37   label at the N-terminal residue
38 <400> SEQUENCE: 3
39   Thr Ala Lys Ala Ser Gln Ser Val Ser Asn Asp Val Ala
40   1           5           10
42 <210> SEQ ID NO: 4
43 <211> LENGTH: 9
44 <212> TYPE: PRT
45 <213> ORGANISM: Artificial Sequence
46 <220> FEATURE:
47 <221> NAME/KEY: misc_feature

```

RAW SEQUENCE LISTING

DATE: 07/22/2002

PATENT APPLICATION: US/09/831,631A

TIME: 15:06:03

Input Set : N:\Crf3\06212002\I831631.raw

Output Set: N:\CRF3\07222002\I831631A.raw

48 <223> OTHER INFORMATION: Description of Artificial Sequence: CDR Derived peptide with Biotin

49 label at the N-terminal residue

50 <400> SEQUENCE: 4

51 Ile Tyr Tyr Ala Ser Asn Arg Tyr Thr

52 1 5

54 <210> SEQ ID NO: 5

55 <211> LENGTH: 11

56 <212> TYPE: PRT

57 <213> ORGANISM: Artificial Sequence

58 <220> FEATURE:

59 <221> NAME/KEY: misc_feature

60 <223> OTHER INFORMATION: Description of Artificial Sequence: CDR Derived peptide with Biotin

61 label at the N-terminal residue

62 <400> SEQUENCE: 5

63 Phe Ala Gln Gln Asp Tyr Ser Ser Pro Leu Thr

64 1 5 10

66 <210> SEQ ID NO: 6

67 <211> LENGTH: 7

68 <212> TYPE: PRT

69 <213> ORGANISM: Artificial Sequence

70 <220> FEATURE:

71 <221> NAME/KEY: misc_feature

72 <223> OTHER INFORMATION: Description of Artificial Sequence: CDR Derived peptide with Biotin

73 label at the N-terminal residue

74 <400> SEQUENCE: 6

75 Phe Thr Asn Tyr Gly Met Asn

76 1 5

78 <210> SEQ ID NO: 7

79 <211> LENGTH: 19

80 <212> TYPE: PRT

81 <213> ORGANISM: Artificial Sequence

82 <220> FEATURE:

83 <221> NAME/KEY: misc_feature

84 <223> OTHER INFORMATION: Description of Artificial Sequence: CDR Derived peptide with Biotin

85 label at the N-terminal residue

86 <400> SEQUENCE: 7

87 Ala Gly Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr Ala Asp

88 1 5 10 15

89 Asp Phe Lys Gly

91 <210> SEQ ID NO: 8

92 <211> LENGTH: 11

93 <212> TYPE: PRT

94 <213> ORGANISM: Artificial Sequence

95 <220> FEATURE:

96 <221> NAME/KEY: misc_feature

97 <223> OTHER INFORMATION: Description of Artificial Sequence: CDR Derived peptide with Biotin

98 label at the N-terminal residue

99 <400> SEQUENCE: 8

100

Ala Arg Ala Tyr Tyr Gly Lys Tyr Phe Asp Tyr

RAW SEQUENCE LISTING

DATE: 07/22/2002

PATENT APPLICATION: US/09/831,631A

TIME: 15:06:03

Input Set : N:\Crf3\06212002\I831631.raw

Output Set: N:\CRF3\07222002\I831631A.raw

```

101      1      5      10
103 <210> SEQ ID NO: 9
104 <211> LENGTH: 221
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <221> NAME/KEY: misc_feature
109 <223> OTHER INFORMATION: Description of Artificial Sequence: Sperm cell specific
epitope
110 <400> SEQUENCE: 9
111      gaattccagc cttcaggtga acatggctcc ggtgaacagc cttctggtga gcaggcctcg      60
112      ggtgaacagc cttcaggtga gcacgcttca ggggaacagg cttcaggtgc accaatttca      120
113      agcacatcta caggcacaat attaaattgc tacacatgtg cttatatgaa tgatcaagga      180
114      aaatgtcttc gtggagaggg aacctgcata actcagaatt c      221
116 <210> SEQ ID NO: 10
117 <211> LENGTH: 69
118 <212> TYPE: PRT
119 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <221> NAME/KEY: misc_feature
122 <223> OTHER INFORMATION: Description of Artificial Sequence: Sperm cell specific
epitope
123 <400> SEQUENCE: 10
124      Gln Pro Ser Gly Glu His Gly Glu Gln Pro Ser Gly Glu Gln Ala Ser
125      1      5      10      15
126      Gly Glu Gln Pro Ser Gly Glu His Ala Ser Gly Glu Gln Ala Ser Gly
127      20      25      30
128      Ala Gln Ile Ser Ser Thr Ser Thr Gly Thr Ile Leu Asn Cys Tyr Thr
129      35      40      45
130      Cys Ala Tyr Met Asn Asp Gln Gly Lys Cys Leu Arg Gly Glu Gly Thr
131      50      55      60
132      Cys Ile Thr Gln Asn
133      65
135 <210> SEQ ID NO: 11
136 <211> LENGTH: 75
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <221> NAME/KEY: misc_feature
141 <223> OTHER INFORMATION: Description of Artificial Sequence: Cloning primers for SP10
142 <400> SEQUENCE: 11
143      gaattccagc cttcaggtga acatggctcc ggtgaacagc cttctggtga gcaggcctcg      60
144      ggtgaacagc cttag      75
146 <210> SEQ ID NO: 12
147 <211> LENGTH: 75
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <221> NAME/KEY: misc_feature
152 <223> OTHER INFORMATION: Description of Artificial Sequence: Cloning primers for SP10
153 <400> SEQUENCE: 12

```

RAW SEQUENCE LISTING

DATE: 07/22/2002

PATENT APPLICATION: US/09/831,631A

TIME: 15:06:03

Input Set : N:\Crf3\06212002\I831631.raw

Output Set: N:\CRF3\07222002\I831631A.raw

```

154      gtgagcacgc ttcaggggaa cagccttcag gtgcaccaat ttcaagcaca tctacaggca      60
155      caatattaaa ttgct                                                    75
157 <210> SEQ ID NO: 13
158 <211> LENGTH: 70
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <221> NAME/KEY: misc_feature
163 <223> OTHER INFORMATION: Description of Artificial Sequence: Cloning primers for SP10
164 <400> SEQUENCE: 13
165      acacatgtgc ttatatgaat gatcaaggaa aatgtcttcg tggagaggga acctgcatca      60
166      ctcagaattc                                                            70
168 <210> SEQ ID NO: 14
169 <211> LENGTH: 70
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <221> NAME/KEY: misc_feature
174 <223> OTHER INFORMATION: Description of Artificial Sequence: Cloning primers for SP10
175 <400> SEQUENCE: 14
176      acacagcagc ttatatgaat gatcaaggaa aagcacttcg tggagaggga accgcaatca      60
177      ctcagaattc                                                            70
179 <210> SEQ ID NO: 15
180 <211> LENGTH: 79
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <221> NAME/KEY: misc_feature
185 <223> OTHER INFORMATION: Description of Artificial Sequence: Cloning primers for SP10
186 <400> SEQUENCE: 15
187      gaattctgag tgatgcagggt tccctctcca cgaagacatt ttccttgatc attcatataa      60
188      gcacatgtgt agcaattta                                                    79
190 <210> SEQ ID NO: 16
191 <211> LENGTH: 79
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <221> NAME/KEY: misc_feature
196 <223> OTHER INFORMATION: Description of Artificial Sequence: Cloning primers for SP10
197 <400> SEQUENCE: 16
198      gaattctgag tgattgcgggt tccctctcca cgaagtgctt ttgatgatc attcatataa      60
199      gctgctgtgt agcaattta                                                    79
201 <210> SEQ ID NO: 17
202 <211> LENGTH: 75
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <221> NAME/KEY: misc_feature
207 <223> OTHER INFORMATION: Description of Artificial Sequence: Cloning primers for SP10

```

RAW SEQUENCE LISTING

DATE: 07/22/2002

PATENT APPLICATION: US/09/831,631A

TIME: 15:06:03

Input Set : N:\Crf3\06212002\I831631.raw

Output Set: N:\CRF3\07222002\I831631A.raw

```

208 <400> SEQUENCE: 17
209      atattgtgcc ttagatgtg cttgaaattg gtgcacctga agcctgttcc cctgaagcgt      60
210      gctcacctga aggct                                         75
212 <210> SEQ ID NO: 18
213 <211> LENGTH: 67
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <221> NAME/KEY: misc_feature
218 <223> OTHER INFORMATION: Description of Artificial Sequence: Cloning primers for SP10
219 <400> SEQUENCE: 18
220      gttctcccgga ggctgtctca ccagaaggct gttcacccgga gccatgttca cctgaaggct      60
221      ggaattc                                         67
223 <210> SEQ ID NO: 19
224 <211> LENGTH: 210
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <221> NAME/KEY: misc_feature
229 <223> OTHER INFORMATION: Description of Artificial Sequence: Sperm cell specific
epitope M
230      SA-6
231 <400> SEQUENCE: 19
232      gtcggcagcc tccgaagcag cccgctccag agcccgtgc tccgaccgct cgtccagagc      60
233      agcctctgct tgctgttcc cttgctgcga tacagctgcg ggcacggcag ctgcagccga      120
234      cgatactgcg acttgacggt gtgccggcga atgtacttgc tgctgcgatt cacggaccg      180
235      ccgctcccg cagcgtgctg cgtcttgagc                                         210
237 <210> SEQ ID NO: 20
238 <211> LENGTH: 70
239 <212> TYPE: PRT
240 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <221> NAME/KEY: misc_feature
243 <223> OTHER INFORMATION: Description of Artificial Sequence: Sperm cell specific
epitope M
244      SA-6
245 <400> SEQUENCE: 20
246      Gln Pro Ser Glu Ala Ser Ser Gly Glu Val Ser Gly Asp Glu Ala Gly
247      1          5          10          15
248      Glu Gln Val Ser Ser Glu Thr Asn Asp Lys Glu Asn Asp Ala Met Ser
249      20          25          30
250      Thr Pro Leu Pro Ser Thr Ser Ala Ala Ile Thr Leu Asn Cys His Thr
251      35          40          45
252      Cys Ala Tyr Met Asn Asp Asp Ala Lys Cys Leu Arg Gly Glu Gly Val
253      50          55          60
254      Cys Thr Thr Gln Asn Ser
255      65          70
257 <210> SEQ ID NO: 21
258 <211> LENGTH: 45
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/22/2002
PATENT APPLICATION: US/09/831,631A TIME: 15:06:04

Input Set : N:\Crf3\06212002\I831631.raw
Output Set: N:\CRF3\07222002\I831631A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:3; Line(s) 36
Seq#:4; Line(s) 48
Seq#:5; Line(s) 60
Seq#:6; Line(s) 72
Seq#:7; Line(s) 84
Seq#:8; Line(s) 97
Seq#:9; Line(s) 109
Seq#:10; Line(s) 122
Seq#:11; Line(s) 141
Seq#:12; Line(s) 152
Seq#:13; Line(s) 163
Seq#:14; Line(s) 174
Seq#:15; Line(s) 185
Seq#:16; Line(s) 196
Seq#:17; Line(s) 207
Seq#:18; Line(s) 218
Seq#:19; Line(s) 229
Seq#:20; Line(s) 243
Seq#:21; Line(s) 263
Seq#:22; Line(s) 273
Seq#:23; Line(s) 283
Seq#:24; Line(s) 293
Seq#:25; Line(s) 303
Seq#:26; Line(s) 313
Seq#:27; Line(s) 323
Seq#:33; Line(s) 399
Seq#:34; Line(s) 410
Seq#:35; Line(s) 421
Seq#:36; Line(s) 432
Seq#:37; Line(s) 443
Seq#:38; Line(s) 454
Seq#:39; Line(s) 465
Seq#:40; Line(s) 476
Seq#:41; Line(s) 487
Seq#:42; Line(s) 498
Seq#:43; Line(s) 509
Seq#:44; Line(s) 519
Seq#:45; Line(s) 529
Seq#:46; Line(s) 540
Seq#:47; Line(s) 551
Seq#:48; Line(s) 562
Seq#:49; Line(s) 573
Seq#:50; Line(s) 584

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/22/2002
PATENT APPLICATION: US/09/831,631A TIME: 15:06:04

Input Set : N:\Crf3\06212002\I831631.raw
Output Set: N:\CRF3\07222002\I831631A.raw

Seq#:51; Line(s) 595
Seq#:52; Line(s) 606
Seq#:53; Line(s) 616
Seq#:54; Line(s) 627
Seq#:55; Line(s) 638
Seq#:56; Line(s) 649
Seq#:57; Line(s) 660
Seq#:58; Line(s) 671
Seq#:59; Line(s) 682
Seq#:60; Line(s) 693
Seq#:61; Line(s) 704
Seq#:62; Line(s) 715
Seq#:63; Line(s) 726
Seq#:64; Line(s) 737
Seq#:65; Line(s) 748
Seq#:66; Line(s) 759
Seq#:67; Line(s) 770
Seq#:68; Line(s) 781
Seq#:69; Line(s) 792
Seq#:70; Line(s) 831

VERIFICATION SUMMARY

DATE: 07/22/2002

PATENT APPLICATION: US/09/831,631A

TIME: 15:06:04

Input Set : N:\Crf3\06212002\I831631.raw

Output Set: N:\CRF3\07222002\I831631A.raw